

## § 431.286

quality inspection, industrial processing, or scientific use, including fluorescent microscopy and ultraviolet curing; and

(2) In the case of a specialty application mercury vapor lamp ballast, the label of which—

(i) Provides that the specialty application mercury vapor lamp ballast is ‘For specialty applications only, not for general illumination’; and

(ii) Specifies the specific applications for which the ballast is designed.

[74 FR 12074, Mar. 23, 2009]

### TEST PROCEDURES [RESERVED]

### ENERGY CONSERVATION STANDARDS

#### § 431.286 Energy conservation standards and their effective dates.

Mercury vapor lamp ballasts, other than specialty application mercury vapor lamp ballasts, shall not be manufactured or imported after January 1, 2008.

[74 FR 12074, Mar. 23, 2009]

## Subpart Q—Refrigerated Bottled or Canned Beverage Vending Machines

SOURCE: 71 FR 71375, Dec. 8, 2006, unless otherwise noted.

#### § 431.291 Scope.

This subpart specifies test procedures for certain commercial refrigerated bottled or canned beverage vending machines, pursuant to part C of Title III of the Energy Policy and Conservation Act, as amended, 42 U.S.C. 6311–6316.

#### § 431.292 Definitions concerning refrigerated bottled or canned beverage vending machines.

*Basic model* means, with respect to refrigerated bottled or canned beverage vending machines, all units of a given type of refrigerated bottled or canned beverage vending machine (or class thereof) manufactured by one manufacturer and which have the same primary energy source, which have electrical characteristics that are essentially identical, and which do not have any differing electrical, physical, or func-

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tional characteristics that affect energy consumption.

*Bottled or canned beverage* means a beverage in a sealed container.

*Class A* means a refrigerated bottled or canned beverage vending machine that is fully cooled, and is not a combination vending machine.

*Class B* means any refrigerated bottled or canned beverage vending machine not considered to be Class A, and is not a combination vending machine.

*Combination vending machine* means a refrigerated bottled or canned beverage vending machine that also has non-refrigerated volumes for the purpose of vending other, non-“sealed beverage” merchandise.

*Refrigerated bottled or canned beverage vending machine* means a commercial refrigerator that cools bottled or canned beverages and dispenses the bottled or canned beverages on payment.

*V* means the refrigerated volume (ft<sup>3</sup>) of the refrigerated bottled or canned beverage vending machine, as measured by ANSI/AHAM HRF-1-2004 (incorporated by reference, see § 431.293).

[71 FR 71375, Dec. 8, 2006, as amended at 74 FR 44967, Aug. 31, 2009]

### TEST PROCEDURES

#### § 431.293 Materials incorporated by reference.

(a) *General.* DOE incorporates by reference the following standards into Subpart Q of Part 431. The material listed has been approved for incorporation by reference by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Any subsequent amendment to a standard by the standard-setting organization will not affect the DOE regulations unless and until amended by DOE. Material is incorporated as it exists on the date of the approval and a notice of any change in the material will be published in the FEDERAL REGISTER. All approved material is available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call (202) 741-6030 or visit [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/](http://www.archives.gov/federal_register/code_of_federal_regulations/)

## Department of Energy

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*ibr\_locations.html*. This material is also available for inspection at U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Building Technologies Program, 6th Floor, 950 L'Enfant Plaza, SW., Washington, DC 20024, 202-586-2945, or visit [http://www1.eere.energy.gov/buildings/appliance\\_standards](http://www1.eere.energy.gov/buildings/appliance_standards). Standards can be obtained from the sources listed below.

(b) ANSI. American National Standards Institute, 25 W. 43rd Street, 4th Floor, New York, NY 10036, 212-642-4900, or visit <http://www.ansi.org>.

(1) ANSI/AHAM HRF-1-2004, Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers, approved July 7, 2004, IBR approved for §§ 431.292 and 431.294.

(2) ANSI/ASHRAE Standard 32.1-2004, Methods of Testing for Rating Vending Machines for Bottled, Canned, and Other Sealed Beverages, approved December 2, 2004, IBR approved for § 431.294.

[74 FR 44967, Aug. 31, 2009]

### **§ 431.294 Uniform test method for the measurement of energy consumption of refrigerated bottled or canned beverage vending machines.**

(a) *Scope*. This section provides test procedures for measuring, pursuant to EPCA, the energy consumption of refrigerated bottled or canned beverage vending machines.

(b) *Testing and Calculations*. (1) The test procedure for energy consumption of refrigerated bottled or canned beverage vending machines shall be conducted in accordance with the test procedures specified in section 4, "Instruments," section 5, "Vending Machine Capacity," section 6, "Test Conditions," and sections 7.1 through 7.2.3.2, under "Test Procedures," of ANSI/ASHRAE Standard 32.1-2004, "Methods of Testing for Rating Vending Machines for Bottled, Canned, and Other Sealed Beverages." (Incorporated by reference, see § 431.293) In Section 6.2, "Voltage and Frequency," test equipment with dual nameplate voltages at the lower of the two voltages only.

(2) Determine "vendible capacity" of refrigerated bottled or canned beverage vending machines in accordance with the second paragraph of section 5, "Vending Machine Capacity," of ANSI/

ASHRAE Standard 32.1-2004, "Methods of Testing for Rating Vending Machines for Bottled, Canned, and Other Sealed Beverages," (Incorporated by reference, see § 431.293) and measure "refrigerated volume" of refrigerated bottled or canned beverage vending machines in accordance with the methodology specified in section 5.2, "Total Refrigerated Volume," (excluding subsections 5.2.2.2 through 5.2.2.4) of the ANSI/AHAM HRF-1-2004, "Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers and Freezers," (Incorporated by reference, see §§ 431.63 and 431.293).

### **§ 431.295 Units to be tested.**

For each basic model of refrigerated bottled or canned beverage vending machine selected for testing, a sample of sufficient size shall be selected at random and tested to ensure that—

(a) Any represented value of estimated energy consumption or other measure of energy consumption of a basic model for which consumers would favor lower values shall be no less than the higher of:

(1) The mean of the sample, or

(2) The upper 95 percent confidence limit of the true mean divided by 1.10; and

(b) Any represented value of the energy efficiency or other measure of energy consumption of a basic model for which consumers would favor higher values shall be no greater than the lower of:

(1) The mean of the sample, or

(2) The lower 95 percent confidence limit of the true mean divided by 0.90.

(Components of similar design may be substituted without requiring additional testing if the represented measures of energy continue to satisfy the applicable sampling provision.)

[75 FR 669, Jan. 5, 2010]

## ENERGY CONSERVATION STANDARDS

### **§ 431.296 Energy conservation standards and their effective dates.**

Each refrigerated bottled or canned beverage vending machine manufactured on or after August 31, 2012 shall have a maximum daily energy consumption (in kilowatt hours per day), when measured at the 75 °F ± 2 °F and